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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/086,590 02/28/2002		Brian F. Ruff	1528.031US1	9015		
7.	590 08/06/2003					
	Devon A. Rolf			EXAMINER		
c/o Garmin International, INC. 1200 East 151st Street			MATZ, DANIEL R			
Olathe, KS 66	062		ART UNIT	PAPER NUMBER		
			3641			
			DATE MAILED: 08/06/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

	•		Application No.		Applicant(s)	11			
•			10/086,590		RUFF ET AL.	A			
	Offic	Action Summary	Examiner		Art Unit	7///			
			Daniel Matz		3641	1/			
Period for		ING DATE of this communication app	ears on the cove	r sheet with the c	orrespondence	address -			
A SHO THE M Extensi after Si - If the pe - If NO pe - Failure - Any rep	RTENED AILING D ions of time r IX (6) MONTI eriod for reply eriod for reply to reply within	STATUTORY PERIOD FOR REPLY OATE OF THIS COMMUNICATION. Inay be available under the provisions of 37 CFR 1.13 HS from the mailing date of this communication. It is specified above is less than thirty (30) days, a reply is specified above, the maximum statutory period we not extended period for reply will, by statute, by the Office later than three months after the mailing adjustment. See 37 CFR 1.704(b).	36(a). In no event, how within the statutory mi rill apply and will expire cause the application t	never, may a reply be tim nimum of thirty (30) days SIX (6) MONTHS from to become ABANDONE	ely filed s will be considered tin the mailing date of this O (35 U.S.C. § 133).				
Status	patent terrir t	agusiment. See S7 S1 N 1.764(b).							
1)⊠	Respons	ive to communication(s) filed on 7/8/0	<u>03</u> .						
2a)□	This action	on is FINAL . 2b)⊠ Thi	is action is non-f	inal.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims									
4)⊠ C	Claim(s)	<u>1-27</u> is/are pending in the application							
4a) Of the above claim(s) is/are withdrawn from consideration.									
5)□ C	Claim(s) _	is/are allowed.							
6)⊠ C	Claim(s) <u>1</u>	<u>-14 and 18-27</u> is/are rejected.							
7)⊠ C	Claim(s) <u>1</u>	<u>/5-17</u> is/are objected to.							
1		are subject to restriction and/or	r election require	ement.					
Application	•								
, —	•	cation is objected to by the Examiner							
,		g(s) filed on is/are: a) ☐ accep		-					
1	• •	may not request that any objection to the	,	•	•	·			
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.									
	• • •	ed, corrected drawings are required in rep r declaration is objected to by the Exa	-	zion.					
/—		•	anniner.						
_		I.S.C. §§ 119 and 120		51100 8440/-) (-I) (O				
	13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
1 .	a) All b) Some * c) None of:								
·	1. Certified copies of the priority documents have been received.								
	 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 								
ŀ		oles of the certified copies of the prior application from the International Bur ached detailed Office action for a list	reau (PCT Rule	17.2(a)).		ai Stage			
14) <u></u> Ac	knowledg	ment is made of a claim for domestic	c priority under 3	35 U.S.C. § 119(e	e) (to a provision	nal application).			
1		anslation of the foreign language pro gment is made of a claim for domesti							
Attachment(s	s)								
2) D Notice	of Draftsper	es Cited (PTO-892) rson's Patent Drawing Review (PTO-948) sure Statement(s) (PTO-1449) Paper No(s)	4) 5) 6)	Notice of Informal F					
U.S. Patent and Trad PTO-326 (Rev.		Office Ac	tion Summary		Par	rt of Paper No. 5			

DETAILED ACTION

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Claim R jections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 1-7, 9-11, 13, and 21-27 are rejected under 35 U.S.C. 102(a) as being anticipated by USPN 6,257,897 granted to Kubota.

Regarding claims 1 and 7, Kubota discloses (fig. 4) a wiring system comprising a flexible guide (34, 35, 44) adapted for connection between a first device (fig. 8, item 50) and a second device (not shown) wherein the flexible guide limits communication line movement to substantially a two dimensional plane. Note that the wiring system is disclosed as applicable to a vehicle instrument panel, and would therefore be applicable to any vehicle such as an automobile, truck, bus, aircraft, etc. Further, the statements of the claims being drawn to "an avionic wiring system" or "an avionics instrument mounting system" are considered statements of intended or desired use, and these elements of the claims, as well as other statements of intended use, do not serve to patentably distinguish the claimed structure over that of the reference. See In re

Pearson, 181 USPQ 641; In re Yanush, 177 USPQ 705; In re Finsterwalder, 168 USPQ 530; In re Casey, 512 USPQ 235; In re Otto, 136 USPQ 458; Ex parte Masham, 2 USPQ2d 1647.

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See MPEP paragraph 2114, which states:

A claim containing a "recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus" if the prior art apparatus teaches all the structural limitations of the claim. <u>Ex parte Masham</u>, 2 USPQ2d 1647.

Claims directed to apparatus must be distinguished from the prior art in terms of structure rather than function. <u>In re Danly</u>, 120 USPQ 528, 531.

Apparatus claims cover what a device is, not what a device does. <u>Hewlett-Packard Co. v. Bausch & Lomb Inc.</u>, 15 USPQ2d 1525, 1528.

As set forth in MPEP paragraph 2115, a recitation in a claim to the material or article worked upon does not serve to limit an apparatus claim.

Note also that connection to a second device is inherent in the disclosure of Kubota, since it is obvious that the wires are used to connect two devices (e.g., if the first device 50 were a clock, the second device would be the vehicle's battery). As to limitations that are considered to be inherent in a reference, note the case law of <u>In re Ludtke</u>, 169 USPQ 563, <u>In re Swinehart</u>, 169 USPQ 226, <u>In re Fitzgerald</u>, 205 USPQ 594, In re Best et al., 195 USPQ 430, and In re Brown, 173 USPQ 685, 688.

Regarding claims 2 and 9, Kubota discloses a wiring system wherein the two dimensional plane is oriented vertically.

Regarding claims 3 and 10, Kubota discloses a wiring system wherein the flexible guide includes an "S" shape when the guide is in a retracted state.

Regarding claims 4 and 13, Kubota discloses a wiring system wherein the flexible guide includes a number (3) of jointed segments (34, 35, 44).

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Regarding claim 5, Kubota discloses a wiring system wherein the flexible guide frame (30) adapted for mounting to a mounting frame (10).

Regarding claim 6, Kubota discloses a wiring system further including a stop (34a) attached to the flexible guide frame.

Regarding claim 11, Kubota discloses a wiring system wherein the flexible guide includes a "C" shape when the guide is in a retracted state. Note that while the guide would normally be in an "S" shape, the guide is flexible and the end piece (44) could be rotated back on the hinge to form a "C" shape when the guide is retracted.

Regarding claim 21, the claimed method of mounting an avionics instrument system is inherent in the disclosure of Kubota, as discussed above regarding claims 1 and 7.

Regarding claim 22, the wiring guide of Kubota would limit movement to a vertical two dimensional plane, as discussed above regarding claims 2-3.

Regarding claim 24, the flexible guide of Kubota includes a number of jointed segments.

Regarding claims 25-27, the claimed method of manufacturing and mounting an avionics instrument system is inherent in the disclosure of Kubota and discussed above regarding claims 1-3.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 8, 12, 14, 18-20, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kubota in view of USPN 4,493,146 granted to Cronin.

Regarding claim 8, use of the wiring system of Kubota to connect an avionics module and display unit (i.e. a display unit on the face of the instrument panel connected to an avionics module), and as taught by Cronin (fig. 2, display unit 18 is connected to an avionics module, not shown) is typical and well known in the aviation art, and thus would have been obvious to one of ordinary skill in the art at the time of the invention.

Regarding claim 12, Cronin teaches the use of a generic display device (18). A flat panel screen is a display device and thus would have been an obvious variation.

Regarding claim 14, Kubota discloses a mounting and wiring system wherein the flexible guide includes a stop (fig. 7, item 46) limiting the flexible guide to a depth within the mounting frame. Thus, use of the mounting and wiring system of Kubota to mount an electronic module and connect the module to a display unit, as is typical and well known in the aviation art as taught by Cronin, would have been obvious to one of ordinary skill in the art at the time of the invention.

Regarding claim 18, Kubota discloses an electrical connector (44) on an end of the flexible guide, adjacent the display unit (50), and accessible when the display unit is unmounted and the flexible guide is extended.

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Regarding claim 19, Kubota discloses a device for use in a vehicle instrument panel. Since an aircraft is a vehicle, application to an aircraft cockpit would be included in the disclosure.

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Regarding claim 20, use of the wiring system of Kubota to connect an avionics module and display unit (i.e. a display unit on the face of the instrument panel connected to an avionics module), and as taught by Cronin (fig. 2, display unit 18 is connected to an avionics module, not shown) is typical and well known in the aviation art, and thus would have been obvious. Use of an avionics module having a motherboard, would have been an obvious variation.

Regarding claim 23, Cronin teaches the use of a generic display device (18). A flat panel screen is a display device and thus would have been an obvious variation.

Allowable Subject Matter

5. Claims 15-17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

6. Applicant's arguments with respect to claims 1-27 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel Matz whose telephone number is (703) 306-

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

4164. The examiner can normally be reached on Mon-Thurs, alt Fri 7:30am to 4:30pm.

supervisor, Michael Carone can be reached on (703) 306-4198. The fax phone

305-7687 for regular communications and (703) 306-4195 for After Final

numbers for the organization where this application or proceeding is assigned are (703)

communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-4180.

DM July 30, 2003

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